

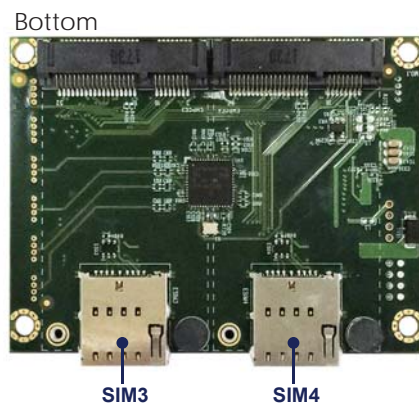
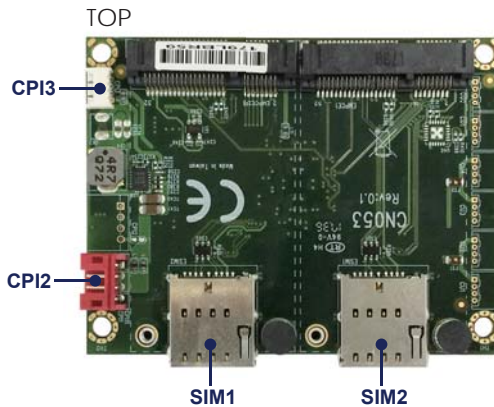
CN053

USB to 4 x Mini PCIe + 4 x SIM expansion board

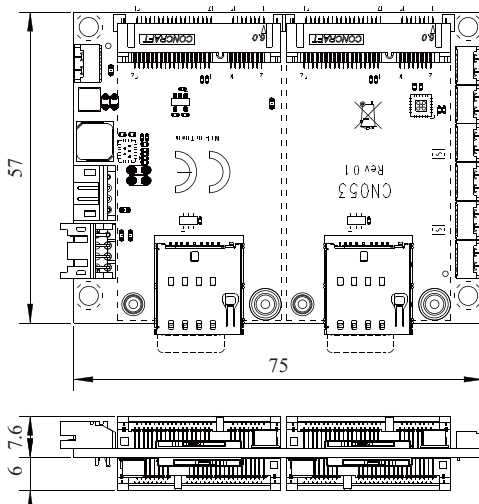
Introduction:

Base on the USB Hub concept, CN053 converts motherboards' USB 2.0 signal to 4 x Mini PCIe slot, Compliant to the USB 2.0 specification. Supports High-Speed (480 Mbps), Full-Speed (12 Mbps), (share one USB 2.0 bandwidth) for achieving the purpose of expanding of Mini PCIe slot.

4 x Mini PCIe Slot support only USB 2.0 mini card signal & built with 4 x Micro SIM socket which supports 4G / LTE modules. Each Mini PCIe slot can support maximum power consumption of 3.3V / 3A. In addition to above, CN053 can support one-to-one independent bandwidth by OEM.



Mechanical Drawing:



Features:

- 4 ports Mini PCIe slot with 4 x Micro SIM cards push-push.
- Support Maximum 3.3V / 3A for each Mini PCIe slot.
- 1 x USB 2.0 speed share to 4 port Mini PCIe slot. (By build-in USB2.0 Hub)
- 4 ports Mini PCIe slot reset pin control by SMBus.
- 4 x USB 2.0 independent speed to 4 port Mini PCIe slot. (OEM)

Specification:

Function	4 Ports Mini PCIe slot
Interface	USB 2.0
SIM	4 Micro SIM (Push-Push)
USB Connector type	1.25 pitch 1x4pin (CPI3)
DC Input Voltage	DC 12V
DC in Connector type	2.0 pitch 1x4pin (CPI2)
Operating Temperature	-40°C ~ +85°C
Dimensions	75 x 57 mm

Accessories:

6G6003-7347-0100 L=15cm, 2.0 1 x 4 / 2.0 1 x 4, Power Cable
6G6002-8018-0100 L=20cm, 4p / 1.25 to 4p / 1.25, USB Cable

Applications:

In-vehicle / Communication / Multi-expansion

PCIe Mini Card – Pin Assignment:

PIN	DESCRIPTION	PIN	DESCRIPTION
1	NC	2	+3.3V
3	NC	4	GND
5	NC	6	+1.5V
7	NC	8	SIM PWR.
9	GND	10	SIM DATA
11	NC	12	SIM CLK
13	NC	14	SIM Reset.
15	GND	16	SIM VPP
KEY			
17	NC	18	GND
19	NC	20	NC
21	GND	22	Reset
23	NC	24	+3.3V
25	NC	26	GND
27	GND	28	+1.5V
29	GND	30	SMB-CLK
31	NC	32	SMB-DATA
33	NC	34	GND
35	GND	36	USB-DATA-
37	GND	38	USB-DATA+
39	+3.3V	40	GND
41	+3.3V	42	NC
43	GND	44	NC
45	NC	46	NC
47	NC	48	+1.5V
49	NC	50	GND
51	NC	52	+3.3V

Specification are subject to change without prior notice. ODM / OEM is available.